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OCTOBER 31.

The President, Dr. RUSCHENBERGER, in the chair.

Thirty-five members present.

A paper entitled "Descriptions of Vertebrate Remains chiefly from the Ashley Phosphate Beds of North Carolina," by Jos. Leidy, M.D., was presented for publication.

Self-fertilization in Mentzelia ornata.—Mr. THOMAS MEEHAN referred to an objection made during his remarks on this plant some weeks ago, that a flower which had produced a perfect capsule under a gauze bag to exclude insects, might yet not produce perfect seeds. The capsule was now ripe, and the seed perfect.

Direct Growth Force in Roots.—Mr. MEEHAN spoke of the direct growth-force in roots, as illustrated by some specimens of the White Hickory (*Carya tomentosa*) exhibited. The Hickories during the first few years of their growth developed far more beneath than above the surface. He had seen Pecan Nuts (*Carya olivæformis*), with weak stems not two feet high, have tap roots six feet long. In the one year hickory now exhibited, the tap root was three times the length of the stem. In one plant, however, the young radicle, instead of pushing through the cleft made by the separated shell, had been directed into the shell, and in its fruitless effort to penetrate the wall, had lingered so long, that the upper portion had grown so large as to prevent egress. The root, therefore, instead of making a slender growth of eighteen inches long, had simply made a bulb of about three quarters of an inch in diameter with the shell of the nut attached to it.

Interpretation of varying Forms.—Mr. THOS. MEEHAN said that William Bartram, in the last century, had found forms of *Liriodendron tulipifera* on the Schuylkill River, as he had been informed by his son-in-law, with entire leaves, but only this year had he succeeded in discovering them. Some of these leaves he exhibited. He observed that years ago, such discoveries had an interest in themselves. Now the botanist expected to find entire leaved forms among kinds usually lobed, or lobed ones among the entire leaved class; the only value now in these discoveries is in any lesson they might teach. As a rule, he hesitated to refer to the unpublished observations of others, preferring that the discoverers should in their own good time and way, report what they had found; but hoped to be pardoned on this occasion, for saying that on a recent visit to the Academy, the distinguished botanist Dr. Engel-